



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Confirmation No. 3564

Sadanobu SHIRAI et al.

Attorney Docket No. 2005 0152A

Serial No. 10/524,858

Group Art Unit 1615

Filed February 18, 2005

Examiner Hasan Syed Ahmed

PATCHES CONTAINING TULOBUTEROL :

### **SUBMISSION OF ENGLISH TRANSLATION OF IPRP**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEE FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975.

Sir:

Applicants are submitting herewith a copy of the English translation of the International Preliminary Report on Patentability issued in connection with the PCT application on which the present U.S. application is based.

Respectfully submitted,

Sadanobu SHIRAI et al.

By:

Michael R Davie

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### PATENT COOPERATION TREATY



From the INTERNATIONAL BUREAU

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

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KAWAMIYA, Osamu Aoyama & Partners IMP Building 3-7, Shiromi 1-chome Chuo-ku, Osaka-shi Osaka 5400001 **JAPON** 

Date of mailing (day/month/year) 04 May 2006 (04.05.2006)	
04 May 2000 (04.03.2000)	
Applicant's or agent's file reference 664532	IMPORTANT NOTIFICATION
International application No. CPCT/JP2004/008777	International filing date (day/month/year) 16 June 2004 (16.06.2004)
Applicant TEIKO	OKU SEIYAKU CO., LTD. et al
1. Transmittal of the translation to the applicant.	

<b>✓</b>	The International Bureau transmits herewith a copy of the English translation of the international preliminary repatentability (Chapter I).	port on
	The International Durant constitution with the social state of the Park State of the State of th	

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

### Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

#### None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO	Authorized officer	
34, chemin des Colombettes 1211 Geneva 20, Switzerland	Masashi Hor	nda
Facsimile No.+41 22 740 14 35	Facsimile No.+41 22 338 70 10	And the second of the second o

### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 664532	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/JP2004/008777	International filing date (day/month/year) 16 June 2004 (16.06.2004)	Priority date (day/month/year) 20 June 2003 (20.06.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant TEIKOKU SEIYAKU CO., LTD.				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	This report contains indications relating to the following items:			
	Box No. I	Basis of the report		
	Box No. II	Priority		
,	Вох №. П1	Non-establishment of opir applicability	nion with regard to novelty, inventive step and iridustrial	
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).			
		÷	Date of issuance of this report 24 April 2006 (24.04.2006)	
	The International Burn 34, chemin des Co	lombettes	Authorized officer  Masashi Honda	
Facsi	1211 Geneva 20, Switzerland Facsimile No. +41 22 740 14 35		Telephone No. +41 22 338 70 10	

Form PCT/IB/373 (January 2004)

### PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 664532 See paragraph 2 below International filing date (day/month/year) Priority date (day/mont/n/year) International application No. 20.06.2003 PCT/JP2004/008777 16.06.2004 International Patent Classification (IPC) or both national classification and IPC Applicant TEIKOKU SEIYAKU CO., LTD. This opinion contains indications relating to the following items: Box No. 1 Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION 2. If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule (6.1bis b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Facsimile No. Telephone No.

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/008777

Box	No. 1	Basis of this opinion	
i.	With filed	regard to the language, this opinio, unless otherwise indicated under t	on has been established on the basis of the international application in the Language in which it was his item.
			on the basis of a translation from the original language into the following Language  , which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).	
2.	With inver	regard to any nucleotide and/or ntion, this opinion has been establis	amino acid sequence disclosed in the international application and necessary to the claimed hed on the basis of:
	a.	type of material	
		a sequence listing	
		table(s) related to the sequer	nce listing
	b.	format of material	
		in written format	
		in computer readable form	
	c.	time of filing/furnishing	
		contained in the international	d application as filed.
		filed together with the interr	national application in computer readable form.
			us Authority for the purposes of search.
	_		
3.		turnished, the required statements	than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or that the information in the subsequent or additional copies is identical to that in the application as optication as filed, as appropriate, were furnished.
	A 11.11	•	
4.	Add	itional comments:	
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/008777

l. Statement	ions and explanations su	pporting such statement	
Novelty (N)	Claims	1-3	YES
	Claims		NO NO
Inventive step (	IS) Claims		YES
	Claims	1-3	NO
Industrial appli	cability (IA) Claims	1-3	YES
	Claims		. NO

#### 2. Citations and explanations:

Document 1: KIM, B. -D. et al., Proceedings – 28<sup>th</sup> International Symposium on Controlled Release of Bioactive Materials and 4<sup>th</sup> Consumer & Diversified Products Conference, 2001, Vol. 1, pages 167-168

Document 2: WO 01/28531 A1 (LTS Lohmann Therapie-Systeme AG), 26 April 2001

Document 3: JP 7-285854 A (Nitto Denko Corp.), 31 October 1995

Document 4: JP 63-10716 A (Teijin, Ltd.), 18 January 1988

### Claims 1-3:

The inventions of claims 1-3 do not appear to involve an inventive step over documents 1-4 cited in the ISR.

Document 1 describes an adhesive patch containing tulobuterol and olefinic acid in an acryl adhesive (refer to table 2), differing from the invention of the present application in that document 1 does not use rubber or the like as an adhesive or specify the concentration of the ingredients.

Nevertheless, document 1 describes that a rubber-based ingredient may be selected for the adhesive, and the addition of a rubber-based adhesive, a tackifier resin, a softener, or the like to the adhesive patch containing tulobuterol as described in documents 2-4 is well known to people skilled in the art. Thus trying to add those ingredients to the invention described in document 1 could easily be achieved by a person skilled in the art.

This examination does not find that experimentally optimizing the concentrations of tulobuterol and olefinic acid with the object of obtaining the desired discharge speed requires a special technical inventive idea for a person skilled in the art, or that the specification of the present application adequately indicates the effect from specifying those concentrations.